

## EAST Search History

| Ref # | Hits  | Search Query  | DBs      | Default Operator | Plurals | Time Stamp       |
|-------|-------|---|----------|------------------|---------|------------------|
| L1    | 17013 | @ad<"19991208"  | US-PGPUB | OR               | ON      | 2007/03/01 13:19 |
| L2    | 0     | 1 and (certificate and (tree chain) and trust).clm.   | US-PGPUB | OR               | ON      | 2007/03/01 13:19 |
| L3    | 0     | 1 and (certificate and (backward) and trust).clm.     | US-PGPUB | OR               | ON      | 2007/03/01 13:19 |
| L4    | 5     | 1 and (certificate and (backward reverse proof)).clm. | US-PGPUB | OR               | ON      | 2007/03/01 13:20 |
| L5    | 5     | 1 and (certificate and (proof)).clm.                  | US-PGPUB | OR               | ON      | 2007/03/01 13:20 |
| L6    | 1     | 1 and (certificate and (discov\$5)).clm.              | US-PGPUB | OR               | ON      | 2007/03/01 13:20 |

## EAST Search History

| Ref # | Hits | Search Query   | DBs   | Default Operator | Plurals | Time Stamp       |
|-------|------|--|---|------------------|---------|------------------|
| L1    | 5    | (certificate trust) near2 chain same (backward backtrack decompos\$5)                                  | US-PGPUB;<br>USPAT;<br>IBM_TDB              | OR               | ON      | 2007/03/01 13:14 |
| L2    | 54   | @ad<"19991208" and 713/157.ccls.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | OR               | ON      | 2007/03/01 13:14 |
| L3    | 3    | @ad<"19991208" and (certificate trust) with (tree chain) same (backward reverse backtrack decompos\$5) | US-PGPUB;<br>USPAT;<br>IBM_TDB              | OR               | ON      | 2007/03/01 13:14 |
| L4    | 19   | @ad<"19991208" and trust with certificate and backwards  | US-PGPUB;<br>USPAT;<br>IBM_TDB              | OR               | ON      | 2007/03/01 13:14 |
| L5    | 3    | @ad<"19991208" and trust adj chain same certificate  | US-PGPUB;<br>USPAT;<br>IBM_TDB              | OR               | ON      | 2007/03/01 13:14 |
| L6    | 2    | @ad<"19991208" and certificate with discovery same chain   | US-PGPUB;<br>USPAT;<br>IBM_TDB              | OR               | ON      | 2007/03/01 13:14 |
| L7    | 594  | @ad<"19991208" and 707/9.ccls.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | OR               | ON      | 2007/03/01 13:17 |
| L8    | 835  | @ad<"19991208" and 380/30.ccls.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | OR               | ON      | 2007/03/01 13:17 |
| L9    | 315  | (7 8 ) and certificate   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | OR               | ON      | 2007/03/01 13:17 |
| L10   | 85   | 9 and (chain tree)   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | OR               | ON      | 2007/03/01 13:18 |
| S1    | 46   | @ad<"19991208" and 713/157.ccls.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | OR               | ON      | 2004/04/15 10:38 |
| S2    | 126  | @ad<"19991208" and 713/175, "176".ccls.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | OR               | ON      | 2004/04/15 10:39 |

## EAST Search History

|     |         |  |   |    |    |                  |
|-----|---------|--|---|----|----|------------------|
| S3  | 505     | @ad<"19991208" and 713/175,176.<br>ccls.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | OR | ON | 2004/04/15 10:39 |
| S4  | 548     | @ad<"19991208" and 707/9.ccls.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | OR | ON | 2004/04/15 10:40 |
| S5  | 50      | (S1 S2 S3 S4) and certificate with<br>chain  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | OR | ON | 2004/04/15 10:40 |
| S6  | 0       | @ad<"19991208" and trust with<br>certificate and backwards with proof  | US-PGPUB;<br>USPAT;<br>IBM_TDB              | OR | ON | 2004/04/13 15:32 |
| S7  | 12      | @ad<"19991208" and trust with<br>certificate and backwards   | US-PGPUB;<br>USPAT;<br>IBM_TDB              | OR | ON | 2004/04/13 15:37 |
| S8  | 3       | @ad<"19991208" and trust adj<br>chain same certificate   | US-PGPUB;<br>USPAT;<br>IBM_TDB              | OR | ON | 2004/04/13 15:37 |
| S9  | 2       | "6134550".URPN.  | USPAT                                       | OR | ON | 2004/04/14 08:42 |
| S10 | 8       | ("5220604"   "5224163"   "5315657"<br>  "5666416"   "5671280"  <br>"5687235"   "5745574"  <br>"5745886").PN. | USPAT                                       | OR | ON | 2004/04/14 08:42 |
| S11 | 2965353 | @ad<"19991208"   | US-PGPUB;<br>USPAT;<br>IBM_TDB              | OR | ON | 2004/04/14 08:50 |
| S12 | 2       | @ad<"19991208" and (certificate<br>trust) near2 chain same (backward<br>reverse backtrack)                   | US-PGPUB;<br>USPAT;<br>IBM_TDB              | OR | ON | 2004/04/14 10:57 |
| S13 | 2       | @ad<"19991208" and (certificate<br>trust) near2 chain same (backward<br>reverse backtrack decompos\$5)       | US-PGPUB;<br>USPAT;<br>IBM_TDB              | OR | ON | 2007/02/28 09:09 |
| S14 | 0       | @ad<"19991208" and (certificate<br>trust) near2 chain same (backward<br>backtrack decompos\$5)               | US-PGPUB;<br>USPAT;<br>IBM_TDB              | OR | ON | 2004/04/14 10:00 |
| S15 | 2       | (certificate trust) near2 chain same<br>(backward backtrack decompos\$5)                                     | US-PGPUB;<br>USPAT;<br>IBM_TDB              | OR | ON | 2004/04/14 10:51 |
| S16 | 0       | @ad<"19991208" and certificate<br>with discovery with chain  | US-PGPUB;<br>USPAT;<br>IBM_TDB              | OR | ON | 2004/04/14 10:55 |
| S17 | 2       | @ad<"19991208" and certificate<br>with discovery same chain  | US-PGPUB;<br>USPAT;<br>IBM_TDB              | OR | ON | 2004/04/14 10:53 |

## EAST Search History

|     |    |  |  |    |    |                  |
|-----|----|--|--|----|----|------------------|
| S18 | 6  | certificate with discovery with chain  | US-PGPUB;<br>USPAT;<br>IBM_TDB                   | OR | ON | 2004/04/14 11:02 |
| S19 | 0  | "20010014943".URPN.  | USPAT  | OR | ON | 2004/04/14 10:56 |
| S20 | 26 | @ad<"19991208" and (certificate trust) same (backward backtrack)                                       | US-PGPUB;<br>USPAT;<br>IBM_TDB                   | OR | ON | 2004/04/14 10:59 |
| S21 | 6  | certificate with discovery with chain  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB      | OR | ON | 2004/04/14 11:27 |
| S22 | 15 | @ad<"19991208" and certificate same recursi\$5   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB      | OR | ON | 2004/04/15 09:06 |
| S23 | 10 | @ad<"19991208" and reverse near2 certificate   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB      | OR | ON | 2004/04/15 10:38 |
| S24 | 1  | "6134550".pn.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO;<br>IBM_TDB | OR | ON | 2007/02/28 08:11 |
| S25 | 3  | @ad<"19991208" and (certificate trust) with chain same (backward reverse backtrack decompos\$5)        | US-PGPUB;<br>USPAT;<br>IBM_TDB                   | OR | ON | 2007/02/28 09:09 |
| S26 | 3  | @ad<"19991208" and (certificate trust) with (tree chain) same (backward reverse backtrack decompos\$5) | US-PGPUB;<br>USPAT;<br>IBM_TDB                   | OR | ON | 2007/02/28 09:10 |

## EAST Search History

| Ref # | Hits | Search Query   | DBs   | Default Operator | Plurals | Time Stamp       |
|-------|------|--|---|------------------|---------|------------------|
| L1    | 5    | (certificate trust) near2 chain same (backward backtrack decompos\$5)                                  | US-PGPUB;<br>USPAT;<br>IBM_TDB              | OR               | ON      | 2007/03/01 13:14 |
| L2    | 54   | @ad<"19991208" and 713/157.ccls.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | OR               | ON      | 2007/03/01 13:14 |
| L3    | 3    | @ad<"19991208" and (certificate trust) with (tree chain) same (backward reverse backtrack decompos\$5) | US-PGPUB;<br>USPAT;<br>IBM_TDB              | OR               | ON      | 2007/03/01 13:14 |
| L4    | 19   | @ad<"19991208" and trust with certificate and backwards  | US-PGPUB;<br>USPAT;<br>IBM_TDB              | OR               | ON      | 2007/03/01 13:14 |
| L5    | 3    | @ad<"19991208" and trust adj chain same certificate  | US-PGPUB;<br>USPAT;<br>IBM_TDB              | OR               | ON      | 2007/03/01 13:14 |
| L6    | 2    | @ad<"19991208" and certificate with discovery same chain   | US-PGPUB;<br>USPAT;<br>IBM_TDB              | OR               | ON      | 2007/03/01 13:14 |
| L7    | 594  | @ad<"19991208" and 707/9.ccls.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | OR               | ON      | 2007/03/01 13:17 |
| L8    | 835  | @ad<"19991208" and 380/30.ccls.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | OR               | ON      | 2007/03/01 13:17 |
| L9    | 315  | (7 8 ) and certificate   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | OR               | ON      | 2007/03/01 13:17 |
| L10   | 85   | 9 and (chain tree)   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | OR               | ON      | 2007/03/01 13:18 |
| S1    | 46   | @ad<"19991208" and 713/157.ccls.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | OR               | ON      | 2004/04/15 10:38 |
| S2    | 126  | @ad<"19991208" and 713/175, "176".ccls.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | OR               | ON      | 2004/04/15 10:39 |

## EAST Search History

|     |         |   |   |    |    |                  |
|-----|---------|---|---|----|----|------------------|
| S3  | 505     | @ad<"19991208" and 713/175,176.ccls.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | OR | ON | 2004/04/15 10:39 |
| S4  | 548     | @ad<"19991208" and 707/9.ccls.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | OR | ON | 2004/04/15 10:40 |
| S5  | 50      | (S1 S2 S3 S4) and certificate with chain  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB | OR | ON | 2004/04/15 10:40 |
| S6  | 0       | @ad<"19991208" and trust with certificate and backwards with proof                                  | US-PGPUB;<br>USPAT;<br>IBM_TDB              | OR | ON | 2004/04/13 15:32 |
| S7  | 12      | @ad<"19991208" and trust with certificate and backwards   | US-PGPUB;<br>USPAT;<br>IBM_TDB              | OR | ON | 2004/04/13 15:37 |
| S8  | 3       | @ad<"19991208" and trust adj chain same certificate   | US-PGPUB;<br>USPAT;<br>IBM_TDB              | OR | ON | 2004/04/13 15:37 |
| S9  | 2       | "6134550".URPN.   | USPAT                                       | OR | ON | 2004/04/14 08:42 |
| S10 | 8       | ("5220604"   "5224163"   "5315657"   "5666416"   "5671280"   "5687235"   "5745574"   "5745886").PN. | USPAT                                       | OR | ON | 2004/04/14 08:42 |
| S11 | 2965353 | @ad<"19991208"  | US-PGPUB;<br>USPAT;<br>IBM_TDB              | OR | ON | 2004/04/14 08:50 |
| S12 | 2       | @ad<"19991208" and (certificate trust) near2 chain same (backward reverse backtrack)                | US-PGPUB;<br>USPAT;<br>IBM_TDB              | OR | ON | 2004/04/14 10:57 |
| S13 | 2       | @ad<"19991208" and (certificate trust) near2 chain same (backward reverse backtrack decompos\$5)    | US-PGPUB;<br>USPAT;<br>IBM_TDB              | OR | ON | 2007/02/28 09:09 |
| S14 | 0       | @ad<"19991208" and (certificate trust) near2 chain same (backward backtrack decompos\$5)            | US-PGPUB;<br>USPAT;<br>IBM_TDB              | OR | ON | 2004/04/14 10:00 |
| S15 | 2       | (certificate trust) near2 chain same (backward backtrack decompos\$5)                               | US-PGPUB;<br>USPAT;<br>IBM_TDB              | OR | ON | 2004/04/14 10:51 |
| S16 | 0       | @ad<"19991208" and certificate with discovery with chain  | US-PGPUB;<br>USPAT;<br>IBM_TDB              | OR | ON | 2004/04/14 10:55 |
| S17 | 2       | @ad<"19991208" and certificate with discovery same chain  | US-PGPUB;<br>USPAT;<br>IBM_TDB              | OR | ON | 2004/04/14 10:53 |

## EAST Search History

|     |    |  |  |    |    |                  |
|-----|----|--|--|----|----|------------------|
| S18 | 6  | certificate with discovery with chain  | US-PGPUB;<br>USPAT;<br>IBM_TDB                   | OR | ON | 2004/04/14 11:02 |
| S19 | 0  | "20010014943".URPN.  | USPAT  | OR | ON | 2004/04/14 10:56 |
| S20 | 26 | @ad<"19991208" and (certificate trust) same (backward backtrack)                                       | US-PGPUB;<br>USPAT;<br>IBM_TDB                   | OR | ON | 2004/04/14 10:59 |
| S21 | 6  | certificate with discovery with chain  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB      | OR | ON | 2004/04/14 11:27 |
| S22 | 15 | @ad<"19991208" and certificate same recursi\$5   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB      | OR | ON | 2004/04/15 09:06 |
| S23 | 10 | @ad<"19991208" and reverse near2 certificate   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>IBM_TDB      | OR | ON | 2004/04/15 10:38 |
| S24 | 1  | "6134550".pn.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO;<br>IBM_TDB | OR | ON | 2007/02/28 08:11 |
| S25 | 3  | @ad<"19991208" and (certificate trust) with chain same (backward reverse backtrack decompos\$5)        | US-PGPUB;<br>USPAT;<br>IBM_TDB                   | OR | ON | 2007/02/28 09:09 |
| S26 | 3  | @ad<"19991208" and (certificate trust) with (tree chain) same (backward reverse backtrack decompos\$5) | US-PGPUB;<br>USPAT;<br>IBM_TDB                   | OR | ON | 2007/02/28 09:10 |